## INTERNATIONAL SEARCH REPORT

International application No. PCT/AU2004/000784

US 5489187 A (RAY) 6 February 1996 X Fig 1	
According to International Patent Classification (IPC) or to both national classification and IPC  B. FIELDS SEARCHED  Minimum documentation searched (classification system followed by classification symbols)  Refer electronic database consulted below  Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  DWPI - keywords centrifugal pump, auxiliary, additional, shroud, enclosed, vane, blade and similar terms  C. DOCUMENTS CONSIDERED TO BE RELEVANT  Category*  Citation of document, with indication, where appropriate, of the relevant passages  Relev claim  US 5489187 A (RAY) 6 February 1996  Fig 1  US 5165858 A (GILBERT et al) 24 November 1992  Column 6, lines 7-25, fig 6	•
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C. DOCUMENTS CONSIDERED TO BE RELEVANT  Category* Citation of document, with indication, where appropriate, of the relevant passages Relevation of Section	
Category*  Citation of document, with indication, where appropriate, of the relevant passages  Relevant Document Plant	
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US 5165858 A (GILBERT et al) 24 November 1992  Column 6, lines 7-25, fig 6	
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Y EP 567123 A1 (PRAXAIR TECHNOLOGY, INC.) 27 October 1993 Fig 1 2-1	11
X Further documents are listed in the continuation of Box C X See patent family annex	
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier application or patent but published on or after the international filing date  "T" later document published after the international filing date or priority date an conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is along the conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is along the conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is along the conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention along the conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention along the conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention along the conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention along the conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance.	
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition alone "Y" document referring to an oral disclosure, use, exhibition alone "Y" document referring to an oral disclosure, use, exhibition alone "Y" document is combined with one or more such documents, such combination being obvious to a person skilled in the alone document is combined with one or more such documents, such combination being obvious to a person skilled in the alone document of particular relevance; the claimed invention cannot be considered involve an inventive step when the document is combined with one or more	red to
or other means "&" document member of the same patent family  "P" document published prior to the international filing date but later than the priority date claimed	w. t
Date of the actual completion of the international search  29 July 2004  Date of mailing of the international search report	 2004
Name and mailing address of the ISA/AU  Authorized officer	4 U U W
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929  R. SUBBARAYAN Telephone No: (02) 6283 2377	

## INTERNATIONAL SEARCH REPORT

International application No.
PCT/AU2004/000784

C(Continuat	ion). DOCUMENTS CONSIDERED TO BE RELEVANT	T/AU2004/0	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	<del></del>	
		:	Relevant to
	US 4664592 A (GRZINA) 12 May 1987		claim No.
Y	Fig 4	-	
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Α	US 3384026 A (WILLIAMSON, JR) 21 May 1968		
Α	US 4883403 A (WALKER) 28 November 1989	İ	
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Α	US 5921748 A (FRATER) 13 July 1999		
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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU2004/000784

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member					
JS	5489187	AU	72451/96	CA	2232735	GB	2320742
		NZ	319837	US	5591001	US	6036434
		US	6074554	wo	9713071	ZA	9608140
JS	5165858	EP	0389149	US	5088893		
EP	0567123	BR	9301625	BR	9401335	CA	2094624
		CA	2120428	CN	1084614	CN	1101097
		EP	0645522	· JP	6010603	ЛР	7102903
		US	5342171				
ÚS	4664592	AU	30237/84	BR	8403492	CA	1240557
		GB	2143285	IN	161816	ЛР	60036800
		PH	22483				
JS	3384026						
JS	4883403	AU	80718/87	BR	8707496	CN	87106758
		EP	0288500	wo	8802820		
US	5921748	AU	47090/96	BR	9607465	CA	2214415
		EP	0812392	wo	9627085	ZA	9601552

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX